

Amendments to the Claims

The following listing of the claims will replace all prior versions, and listings of the claims in the application:

Listing of Claims

1-9 canceled

10. (currently amended) A method using a computer system for presenting values of variables from a selected type of device to a user interface in a human-understandable form, for establishing communications between a network and a device operatively connected to the network without regard to the language of the connected device, the network the system including a data engine for interfacing with a data dictionary, and a data agent which is connected to the device, the method comprising the steps of:

obtaining by the data engine from the data dictionary, names of variables associated with the selected type of device and information about the language of the type of device;

detecting obtaining, by the data agent, based on the selected type of device, values of the variables, device information including the identity of the device, the language of the device and device data;

obtaining, by the data engine, from the data agent, the values obtained device information detected by the data agent;

obtaining, by the data engine, from the data dictionary, information about the language of the device to facilitate translation of the device data into a selective human-understandable form;

translating, by the data engine, the obtained device data values into the selected human-understandable form using the information obtained from the data dictionary; and

presenting, by the data engine, to a the user interface, the translated device data values in the selected human-understandable form.

11. (currently amended) The method as recited in claim 10, further comprising the step of communicating with a first repository data central which is external to the

~~network system, for obtaining information about the device the names of variables associated with the type of the device and the language of the type of the device when, after communicating with the data dictionary the names of the variables, the language or the protocol are which is not available from the data dictionary[[],] to facilitate translation of the device data values into the selective human-understandable form.~~

12. (currently amended) The method as recited in claim 11, further comprising storing, in the data dictionary, the ~~information names of the variables associated with the type of the device and the language of the type of the device obtained from the first repository data central.~~

13. (new) A method, using a computer system, for establishing communication with a device, said device having a known network address but having a language and/or protocol for communication with the device that is unknown to the system, said computer system comprising a data engine and a plurality of data agents, each one of the plurality of data agents being associated with a specific language and protocol, the method comprising the steps of:

(a) selecting one of the plurality of data agents based on the network address;

(b) communicating with a data dictionary to obtain names of variables associated with a union of the selected network address and the selected data agent; and

(c) obtaining values of the variables from the device at the selected network address using the language and protocol of the selected data agent, wherein if the values are obtained, a type of the device is determined from the values of the variables, and if the values are not obtained, repeating steps (a), (b) and (c) until the values are obtained.

14. (new) The method of claim 13, wherein if the names of the variables associated with the network address and the selected data agent are not obtained from the data dictionary, communication is automatically established between the data dictionary and a data central for obtaining the names of the variables, the data dictionary being thereafter automatically updated with the names of the variables obtained from the data central.

15. (new) The method of claim 14, wherein the step of establishing communication between the data dictionary and the data central is via a hyper text markup language link.

16. (new) The method of claim 13, further including the step of communicating with the data dictionary to obtain the names of variables associated with the type of the device.

17. (new) The method of claim 16, further including the step of establishing communication with the device to obtain values of variables associated with the type of the device.

18. (new) The method of claim 17, further including the step of translating the names and the values of the variables into a language understandable by a human.

19. (new) The method of claim 16, wherein if the names of the variables associated with the type of the device are not obtained from the data dictionary, communication is automatically established between the data dictionary and a data central for obtaining the names of the variables, the data dictionary being thereafter automatically updated with the names of the variables obtained from the data central.

20. (new) The method of claim 19, wherein the step of establishing communication between the data dictionary and the data central is accomplished via a hyper text markup language link.

21. (new) The method of claim 13, further including the step of dynamically updating the data dictionary with the type of the device, the protocol and language for establishing communication with the type of the device and the names of the variables associated with the type of the device.

22. (new) A computer system for communicating with a device connected to the system at a network address by the use of a data agent which communicates with the device using the specific protocol and/or language of the device, said system comprising:

a data engine;

a plurality of data agents operatively connected to the data engine, at least two of the data agents being adapted to utilize a different language and/or protocol for communicating with the device; and

a data dictionary connected to the data engine, said data dictionary being adapted to provide names of variables corresponding to both the network address and to the language and/or protocol of the device, wherein the data engine uses the names of the variables provided by said data dictionary to obtain values of the variables from the device.

23. (new) The system of claim 22, further including a data central operatively connected to the data dictionary, wherein if the names of the variables are not obtained from the data dictionary, communication is automatically established between the data dictionary and the data central for obtaining the names of the variables, the data dictionary being thereafter automatically updated with the names of the variables obtained from the data central.

24. (new) The system of claim 23, wherein the step of establishing communication between the data dictionary and the data central is via a hyper text markup language link.

25. (new) The system of claim 23, wherein the data dictionary and/or the data central are adapted to provide the names of variables associated with a type of the device.

26. (new) The system of claim 23, wherein the data dictionary and/or the data central are adapted to provide the names of the variables based upon a selected variable key.